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Server Solution

Thunder n3600R

S2912

AMD 64 Opteron

Optimized Socket F 1U Solution

- Support dual AMD Opteron™ socket F 2xxx CPU
- nVidia NFP 3600
- (8) DDRII 533/667 registered DIMMs
- (2) PCI-E x16 slot (w/ x16+ x8 link)
- (1) HTX slot
- PCI-X expansion capability w/ M2061
- (4) SAS port w/ LSI 1064E
- (6) SATA2 with RAID 0/1/10/5 support

- (2) GbE, OPMA

- EATX form factor
- OPMA interface (w/ Tyan M3295 SMDC optional card support)

(Specifications are subject to change without notice. Items pictured may only be representative.)

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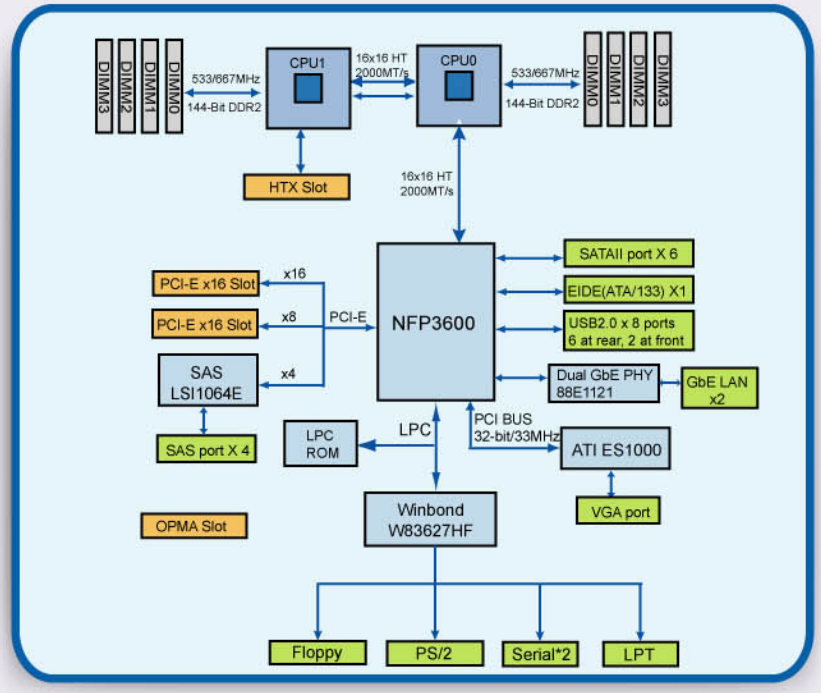
Block Diagram



TOP View

S P E C I F I C A T I O N S

Processors
- Dual 1207-pin ZIF sockets
- Supports up to two AMD Opteron™ RevF 2000 series processors
- Two onboard 4-phase digital VRMs

Chipset
- NVIDIA NFP 3600
- Winbond W83627HF Super IO
- Analog Devices ADT7476 Hardware Monitoring IC

Memory
- Dual-channel memory bus
- Eight DDR2 sockets (four per CPU)
- Supports ECC Registered DIMMs
- Maximum of 32GB DDR2-667/533/400

Expansion Slots
- Two PCI Express x16 slots
  - One with x16 signal
  - One with x 8 signal
- One HTX-pro connector
  - Support Pathscale InfiniPath HTX Adapter
- One OPMA connector for KVM

Integrated I/O
- One floppy connector supports up to two drives
- One IDE connector support up to two ATA133 devices
- One parallel port header and one serial ports
- Eight USB 2.0 EHCI ports (two rear connectors & six headers)

System Management
- CPU thermal & voltage monitor support
- Six 4-pin fan headers (PWM and tachometer support)
- One 2-pin chassis intrusion header Watchdog timer support

Onboard SAS Controller
- LSI 1064E SAS controller
- Four SAS Ports
- Supporting RAID 0 (Integrated Stripping), RAID 1E (Integrated Enchanced Mirroring) and RAID 1 (Integrated Mirroring)

Integrated SATA Controllers
- Three Integrated dual port SATA Controllers from NFP 3600
- Supports up to six SATA drives
- Supports up to 3.0Gb/s
- Supports four independent SATA ports
- Supports raid 0, 1, 0+1,5, JBOD

Integrated I/O Interfaces
- One Floppy connector
- Four USB 2.0 Ports (via cable)
- One COM port (via cable)
- Tyan 2 x 9 front-panel pin header
- 2x25 pin SMDC pin header for SMDC
- One Parallel pin header.
- One ID LED pin header
- One TYFP2 pin header

Integrated Network Processor
- Two GbE via Marvell PHY 88E1121
  - Supports WOL and PXE
  - Two RJ-45 ports with LEDs

Onboard Video Controller
- ATI ES1000
- PCI interface
- 32MB DDR memory

BIOS
- PhoenixBIOS® on 8Mbit LPC Flash ROM
- Support ACPI (S0, S1, S3, S4, S5)
- Serial Console Redirect
- PXE via Ethernet, USB device boot
- PnP, DMI 2.0, WfM 2.0 Power Management
- User-configurable H/W monitoring
- Auto-configuration of hard disk types
- Multiple boot options
- 48-bit LBA support

Form Factor
- SSI / Extended ATX (12" x 13")
- EPS12V/SSI (24 + 8 + 4 pin) power connectors
- Stacked PS/2 keyboard and mouse connectors
- Stacked Serial (1) connector
- Stacked VGA (1) connector
- Stacked USB 2.0 (2)
- Stacked RJ-45 (2) connector for GbE LAN
- Stacked RJ45(1) connector for OPMA

Regulatory
- FCC Class B (DoC)
- European Community CE (DoC)
- BSMI(optional)

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